

**DECLARATION FOR PATENT APPLICATION (JOINT CO-INVENTOR)**  
**(Under 37 CFR § 1.63; with Power of Attorney)**  
**File No. VG-001**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention ENTITLED:

**METHOD AND APPARATUS FOR FINDING HIDDEN PATTERNS IN THE CONTEXT OF QUERYING APPLICATIONS**

the specification of which

  x   is attached hereto.

       was filed on            as Application Serial No.           .

with amendment(s) through                                  (if applicable, give dates).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Sec. 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

**Prior Foreign Application(s)** [list additional applications on separate page]:

**Priority Claimed:**

**Number:**

**Country:**

**Filed (Day/Month/Year):**

**Yes**

**No**

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Sec. 1.56, which became available between the filing date of the prior application and the national or PCT international filing date of this application:

**Prior U.S. Application(s)** [list additional applications on separate page]:

**Appln. Ser. Number:**

**Filed (Day/Month/Year):**

**Status (patented, pending, abandoned):**

60/103,948

13/10/98

Pending

I hereby appoint C. Andrew Im, Registration No. 40,657 as the attorney, with full power of substitution and revocation, to prosecute this application, to make alterations and amendments therein, to file continuation and divisional applications thereof, to receive the Patent, and to transact all business in the Patent and Trademark Office and in the Courts in connection therewith, and specify that all communications about the application are to be directed to the following correspondence address:

C. ANDREW IM, Esq.  
280 N. Central Park Avenue, Suite 235  
Hartsdale, NY 10530

Direct all telephone calls to:  
(914) 761-2334  
to the attention of:  
C. Andrew Im

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**INVENTOR(S):**

Signature: 

Date: Oct-12, 1999

Full name of sole or first inventor:

Indrapal S. Bhandari  
220 Ardsley Road, Scarsdale, NY 10583  
India

Residence:

Citizenship:

Signature: 

Date: October 12<sup>th</sup> 1999

Full name of 2nd joint inventor (if any):

Rajiv Pratap  
5 Wyndover Woods Lane, #1, White Plains, NY 10603  
India

Residence:

Citizenship:

Signature: 

Date: OCTOBER 12, 1999

Full name of 3rd joint inventor (if any):

Krishnakumar Ramanujam  
3 Wyndover Woods Lane, #16, White Plains, NY 10603  
India

Residence:

Citizenship:

Post Office Address(es) of inventor(s):  
[if different from residence]

Note: In order to qualify for reduced fees available to Small Entities, each inventor and any other individual or entity having rights to the invention must also sign an appropriate separate "Verified Statement (Declaration) Claiming [or Supporting a Claim by Another for] Small Entity Status" form [e.g. for Independent Inventor, Small Business Concern, Nonprofit Organization, individual Non-Inventor].



**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JANUARY 27, 2000

PTAS

C. ANDREW IM  
280 N. CENTRAL PARK AVENUE  
SUITE 235  
HARTSDALE, NY 10530



\*101188315A\*

**UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/12/1999

REEL/FRAME: 010336/0663  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

**ASSIGNOR:**

BHANDARI, Inderpal S.

DOC DATE: 10/12/1999

**ASSIGNOR:**

PRATAP, RAJIV

DOC DATE: 10/12/1999

**ASSIGNOR:**

RAMANUJAM, KRISHNAKUMAR

DOC DATE: 10/12/1999

**ASSIGNEE:**

VIRTUAL GOLD, INC.  
280 N. CENTRAL PARK AVENUE, SUITE  
235  
HARTSDALE, NEW YORK 10530

SERIAL NUMBER: 09416414  
PATENT NUMBER:

FILING DATE: 10/12/1999  
ISSUE DATE:

RECORDATION DATE: 10/12/1999

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NUMBER OF PAGES: 2

010336/0663 PAGE 2

KIMBERLY WHITE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

11-01-1999



# LET


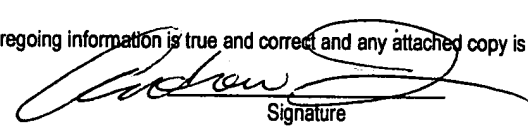
U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

**To the Honorable Commis-**

101188315

shed original documents or copy thereof.

<b>1. Name of conveying party(ies)</b>  Inderpal S. Bhandari Rajiv Pratap Krishnakumar Ramanujam  Additional name(s) of conveying party(ies) attached? <div style="text-align: center;">_ Yes   <input checked="" type="checkbox"/> No</div>		<b>2. Name and address of receiving party(ies)</b>  Name:            VIRTUAL GOLD, INC.  Internal Address:  Street Address: <u>280 N. Central Park Avenue, Suite 235</u>  City: <u>Hartsdale, New York 10530</u>  Additional name(s) & address(es) attached?   _ Yes <input checked="" type="checkbox"/> No	
<b>3. Nature of conveyance:</b>  <div style="display: flex; justify-content: space-between;"><div><input checked="" type="checkbox"/> Assignment _ Security Agreement</div><div><input type="checkbox"/> Merger _ Change of Name _ Other</div></div> Execution Date:   October 12, 1999		<div style="text-align: right;"></div>	
<b>4. Application number(s) or patent number(s):</b> <u>09 / 416414</u>  If this document is being filed together with a new application, the execution date of the application is: October 12, 1999 <div style="display: flex; justify-content: space-between;"><div>A.    Patent Application No.(s)</div><div>B.    Patent No.(s)</div></div> Additional numbers attached?   _ Yes <input checked="" type="checkbox"/> No			
<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b>  Name:            C. Andrew Im Internal Address: Street Address: <u>280 N. Central Park Avenue, Suite 235</u> City: <u>Hartsdale</u> State: <u>NY</u> Zip: <u>10530</u>		<b>6. Total number of applications and patents involved</b> ..... <u>1</u>  <b>7. Total fee (37 CFR 3.41)</b> .....                \$ <u>40.00</u> Enclosed <u>Authorized to be charged to deposit account #</u>  <b>8. Deposit account number:</b> (Attach duplicate copy of this page if paying by deposit account)	
<b>Do not use this space</b>			
<b>9. Statement and signature.</b> To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. <div style="display: flex; justify-content: space-between;"><div style="width: 45%;">09/22/1999 FC:581 Name of Person Signing: <u>C. Andrew Im</u> <div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 30px; display: flex; align-items: center; justify-content: center; margin-top: 10px;">40.00</div></div><div style="width: 45%; text-align: center;"> Signature  <u>October 12, 1999</u> Date</div></div> <div style="text-align: right; margin-top: 20px;">Total number of pages including cover sheet, attachments, and document: <u>2</u></div>			
<b>Do not detach this portion</b>  Mail documents to be recorded with required cover sheet information to:  <b>Commissioner of Patents and Trademarks</b> <b>Box Assignments</b> <b>Washington, D.C. 20231</b>  <small>Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), Washington, D.C. 20503.</small>			

## ASSIGNMENT

WHEREAS, I, as below named inventors, residing at the addresses stated next to my name, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in

### METHOD AND APPARATUS FOR FINDING HIDDEN PATTERNS IN THE CONTEXT OF QUERYING APPLICATIONS

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

AND WHEREAS, Virtual Gold, Inc., with principal offices located at 280 North Central Avenue, Suite 235, Hartsdale, New York 10530 (hereinafter referred to as ASSIGNEE) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

This assignment executed on the dates indicated below.

#### **Inderpal S. Bhandari**

Name of first or sole inventor

220 Ardsley Road, Scarsdale, New York 10583

Residence of first or sole inventor



Signature of first or sole inventor

Oct. 12, 1999

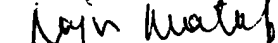
Date of this assignment

#### **Rajiv Pratap**

Name of second inventor

5 Wyndover Woods Lane, #1, White Plains, New York 10603

Residence of second inventor



Signature of second inventor

October 12, 1999

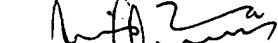
Date of this assignment

#### **Krishnakumar Ramanujam**

Name of third inventor

3 Wynd ver Woods Lane, #16, White Plains, New York 10603

Residence of third inventor



Signature of third inventor

OCT. 12, 1999

Date of this assignment